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(54) WASTE GAS FILTER

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a waste gas filter capable of preventing the occurrence of crack at the vicinity of the crossing part of a ceramic wall due to a thermal stress generated at the time of regeneration.

SOLUTION: This filter is consists of a honeycomb columnar body in which a ceramic lattice 2 is formed by being partitioned with a ceramic wall 4 consisting essentially of aluminum titanate. The cell shape consisting of the ceramic lattice 2 is made square, the thickness T of the ceramic wall 4 other than the vicinity of the crossing part of the ceramic wall 4 is made almost constant at the inside of the honeycomb columnar body, and the thickness of the ceramic wall 4 at the vicinity of the crossing part of the ceramic wall 4 is made thicker than the other ceramic wall 4, thus the occurrence of the crack at the vicinity of the crossing part of the ceramic wall 4 due to the thermal stress generated at the time of regeneration is prevented.

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